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IS 11443-1 (2003): Tool for Pressing and Moulding –
Machined Plates : Part 1 – Machined Plates for Press Tools,
Jigs and Fixtures [PGD 4: Metal Forming Machines]

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Bhartṛhari—Nītiśatakam

“Knowledge is such a treasure which cannot be stolen”



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भारतीय मानक
दाबन और संचकन के औजार — मशीनीकृत प्लेटें
भाग 1 जिग्स व फिक्सचर्स दाब औजारों के लिये मशीनीकृत प्लेटें
(पहला पुनरीक्षण)

Indian Standard
**TOOLS FOR PRESSING AND MOULDING —
MACHINED PLATES**
PART 1 MACHINED PLATES FOR PRESS TOOLS, JIGS AND FIXTURES
(*First Revision*)

ICS 25.120.10

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BUREAU OF INDIAN STANDARDS
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NATIONAL FOREWORD

This Indian Standard (Part 1) (First Revision) which is identical with ISO 6753-1 : 1994 ‘Tools for pressing and moulding — Machined plates — Part 1: Machined plates for press tools, jigs and fixtures’ issued by the International Organization for Standardization (ISO) was adopted by the Bureau of Indian Standards on the recommendation of the Metal Forming Machines Sectional Committee and approval of the Basic and Production Engineering Division Council.

IS 11443 was first published in 1985 under dual numbering identical with ISO 6753 : 1982. Subsequent to the revision of this ISO Standard and with two parts, this Indian Standard is also revised and being brought out in two parts as follows:

IS 11443 (Part 1) : 2003 Tools for pressing and moulding — Machined plates: Part 1 Machined plates for press tools, jigs and fixtures (*first revision*)

IS 11443 (Part 2) : 2003 Tools for pressing and moulding — Machined plates: Part 2 Machined plates for moulds (*first revision*)

The text of the International Standard has been approved as suitable for publication as Indian Standard without deviations. Certain conventions are, however, not identical to those used in Indian Standards. Attention is particularly drawn to the following:

- a) Wherever the words ‘International Standard’ appear referring to this standard, they should be read as ‘Indian Standard’.
- b) Comma (,) has been used as a decimal marker in the International Standard while in Indian Standards, the current practice is to use a point (.) as the decimal marker.

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test or analysis shall be rounded off in accordance with IS 2 : 1960 ‘Rules for rounding off numerical values (*revised*)’. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

Indian Standard

TOOLS FOR PRESSING AND MOULDING — MACHINED PLATES

PART 1 MACHINED PLATES FOR PRESS TOOLS, JIGS AND FIXTURES

(*First Revision*)

1 Scope

This part of ISO 6753 specifies dimensions and tolerances, in millimetres, of machined plates for press tools, jigs and fixtures.

It gives guidance relative to materials and hardness and specifies the designation of machined plates in accordance with this part of ISO 6753.

2 Dimensions

See figure 1 and table 1.

3 Material and corresponding hardness

The material and hardness are left to the manufacturer's discretion.

4 Designation

Machined plates for press tools in accordance with this part of ISO 6753 shall be designated by

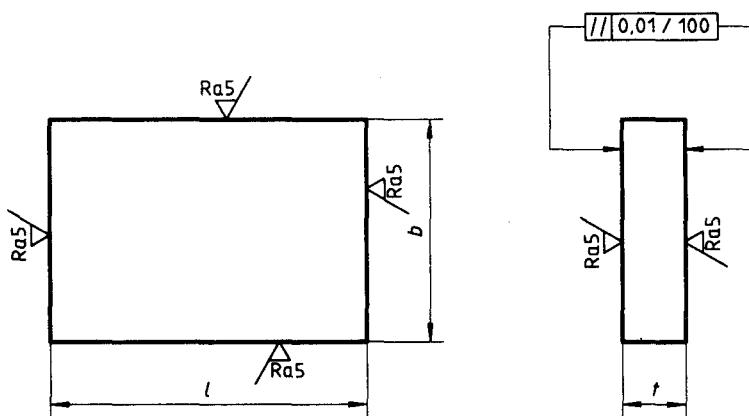
- a) "Machined plate";
- b) reference to this part of ISO 6753;
- c) its edge machining process (oxygen cut, water-jet cut, etc.: 1; milled: 2);
- d) its length l , in millimetres;
- e) its width b , in millimetres;
- f) its thickness t , in millimetres.

EXAMPLE

The designation for a machined plate with oxygen-cut edges (1), with length $l = 160$ mm, with width $b = 80$ mm and with thickness $t = 20$ mm is as follows:

Machined plate ISO 6753-1 1-160 × 80 × 20

Values of surface roughness in micrometres



NOTE — These values of surface roughness apply only to plates with milled edges.

Figure 1

Table 1

Size of plate $l \times b$ ¹⁾	t ± 2						
	20	25	32	40	50	63	80
160 × 80	X	X	X				
160 × 100	X	X	X				
160 × 125	X	X	X				
160 × 160	X	X	X				
200 × 100		X	X	X			
200 × 125		X	X	X			
200 × 160		X	X	X			
200 × 200		X	X	X			
250 × 125		X	X	X			
250 × 160		X	X	X			
250 × 200		X	X	X			
250 × 250		X	X	X			
315 × 160			X	X	X		
315 × 200			X	X	X		
315 × 250			X	X	X		
315 × 315			X	X	X		
400 × 200			X	X	X		
400 × 250			X	X	X		
400 × 315			X	X	X		

Size of plate $l \times b$ 1)	t						
	± 2						
20	25	32	40	50	63	80	
400 × 400		X	X	X			
500 × 250		X	X	X			
500 × 315		X	X	X			
500 × 400		X	X	X			
500 × 500		X	X	X			
630 × 315		X	X	X	X		
630 × 400		X	X	X	X		
630 × 500		X	X	X	X		
630 × 630		X	X	X	X		
710 × 400		X	X	X	X		
710 × 500		X	X	X	X		
710 × 630		X	X	X	X		
800 × 400		X	X	X	X		
800 × 500		X	X	X	X		
800 × 630		X	X	X	X		
900 × 500		X	X	X	X		
900 × 630		X	X	X	X		
900 × 710		X	X	X	X		
1 000 × 500					X	X	X
1 000 × 630					X	X	X
1 000 × 710					X	X	X
1 000 × 800					X	X	X
1 120 × 630					X	X	X
1 120 × 710					X	X	X
1 120 × 800					X	X	X

1) Plates with milled edges: tolerance for dimensions l and $b \leq 630$ mm: $^{+0.4}_{-0.2}$ mm.
 Plates with milled edges: tolerance for dimensions l and $b > 630$ mm: $^{+0.6}_{-0.2}$ mm.
 Plates with oxygen-cut edges, water-jet-cut edges: tolerance for dimensions l and b : $^{+4}_{-1}$ mm.

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